Customer Care Solutions
NHM-4 Series Transceivers

Non-Serviceable Accessories

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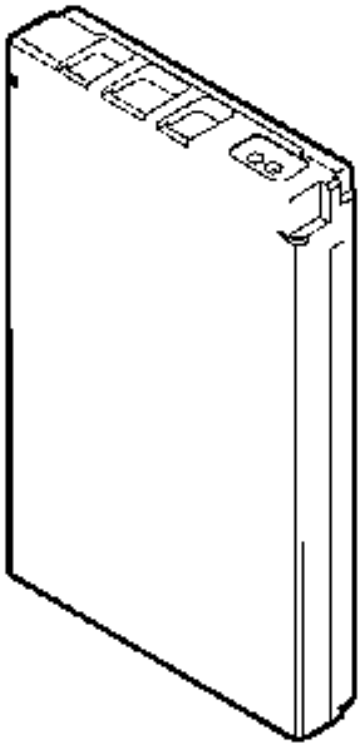
BLB-2 Standard Battery

The BLB-2 is a Li-ion battery in white plastic package.

Figure 1: BLB-2



Name of unit	Type code	Material code	Notes
Semi-fixed Battery	BLB-2	0670246	Lithium-ion 750 mAh (prismatic cell)

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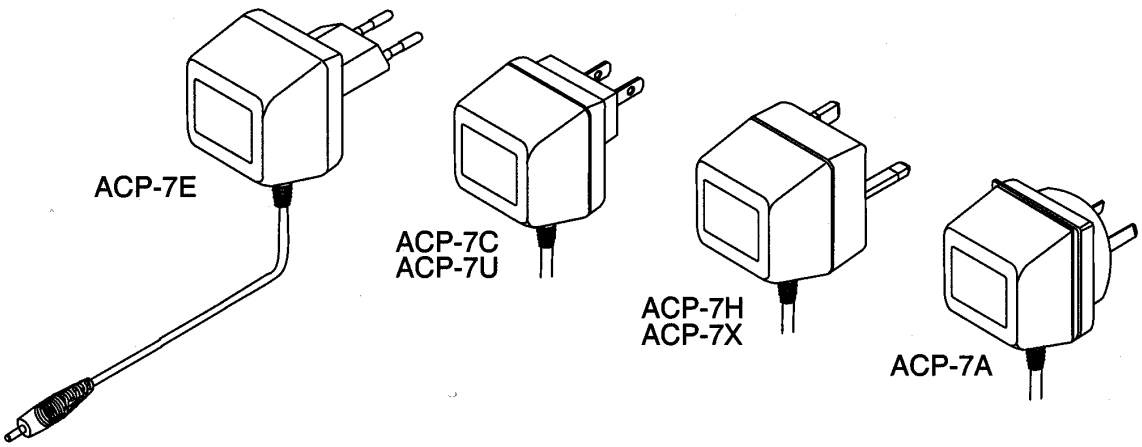
ACP-7 Standard Charger

The standard charger is available for different voltage levels and comes with different wall plugs. The standard charger can also be used as a power supply for the desktop stand.

Name of unit	Type code	Material code	Voltage	Notes
Travel charger	ACP-7E	0675144	207-253 Vac	Euro-plug
Travel charger	ACP-7U	0675143	108-132 Vac	US-plug
Travel charger	ACP-7X	0675145	207-253 Vac	UK-plug
Travel charger	ACP-7A	0675148	216-264 Vac	Australia-plug
Travel charger	ACP-7H	0675146	180-220 Vac	UK-plug, operating voltage (countries like Hong Kong)
Travel changer	ACP-7C	0675158	198-242 Vac	US-plug, (countries like China)

Figure 2: ACP-7



Specification

Output connectors:	*3.5 mm DC plug, 2-pole*
Protection:	PTC protection
Output Voltage /Current (typ)	7.6 V / 370 mA

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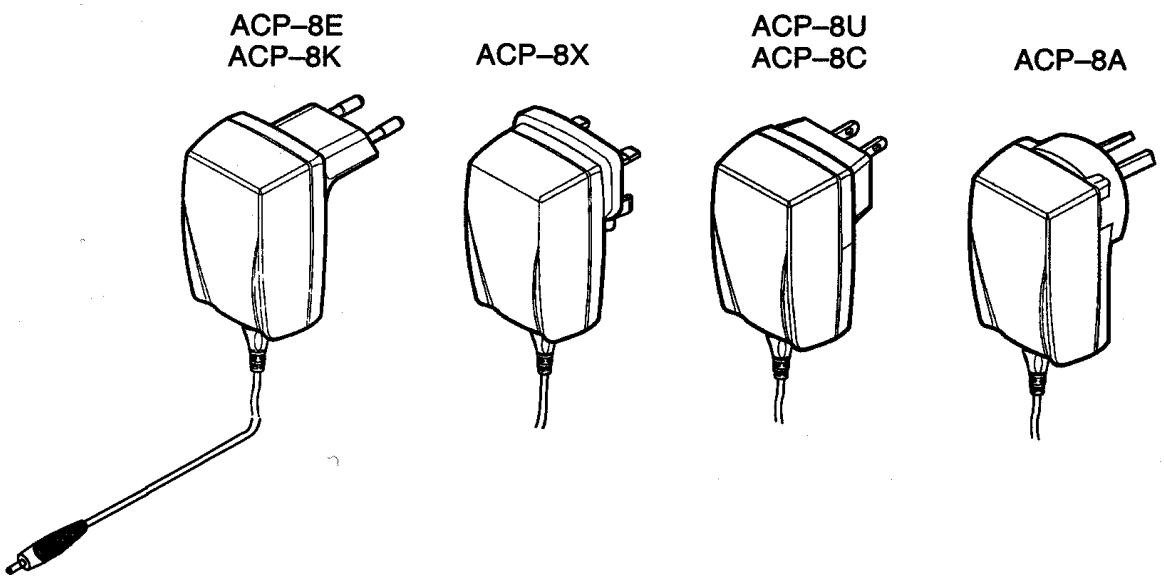
ACP-8 Travel Charger

Operating within the voltage range 90 V...264 V AC (50 Hz...60 Hz), the Travel Charger is practically current independent in normal office and house hold use. Like the standard charger, it is compatible with all battery options and is available for different wall sockets.

The Travel Charger can also be used with desktop stand.

Name of unit	Type code	Material code	Notes
Performance Travel Charger	ACP-8E	0675195	Euro-plug
Performance Travel Charger	ACP-8U	0675196	US-plug
Performance Travel Charger	ACP-8X	0675197	UK-plug
Performance Travel Charger	ACP-8A	0675214	Australia-plug
Performance Travel Charger	ACP-8C	0675211	China-plug
Performance Travel Charger	ACP-8K	0675199	Korea-plug

Figure 3: ACP-8



Specification

Output connectors:	3.5 mm DC plug, 2-pole (+, -, control)
Protection:	Output fault voltage 16 V max.
Output voltage/current (typ):	6.0 V (+0.3 V)/ 620 mA

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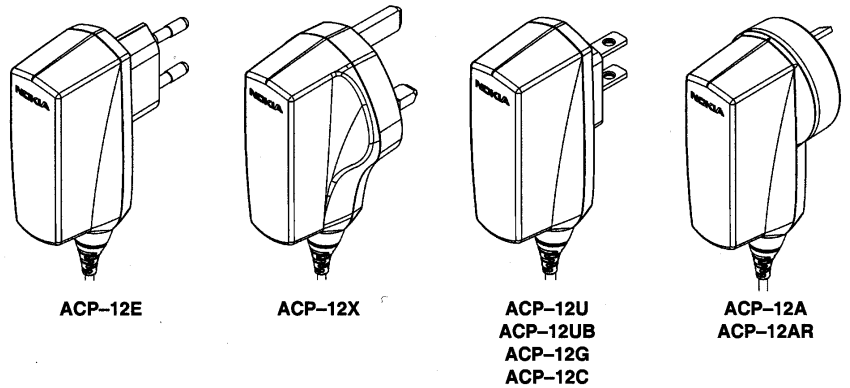
ACP-12 Fast Travel Charger

Operating within the voltage range depends on country specific AC mains voltage (100 - 240 V). Like the standard charger, it is compatible with all battery options and is available for different wall sockets.

The Fast Travel Charger can also be used with desktop stand.

Name of unit	Type code	Material code	Notes
Performance Travel Charger	ACP-12E	0675294	Euro-plug, operating voltage 90..264 Vac
Performance Travel Charger	ACP-12X	0675296	UK-plug, operating voltage 90.. 264 Vac
Performance Travel Charger	ACP-12U	0675302	US-plug ("Made in Country"), operating voltage 90 .. 264 Vac
Performance Travel Charger	ACP-12U	0675303	US-plug ("Made by Manufacturer"), operating voltage 90 .. 264 Vac
Performance Travel Charger	ACP-12UB	0675293	US-plug (e.g. Brazil/Portuguese), operating voltage 90 .. 264 Vac
Performance Travel Charger	ACP-12G	0675295	US-plug (e.g. Brazil/Gradient), operating voltage 90 .. 264 Vac)
Performance Travel Charger	ACP-12C	0675297	China-plug, operating voltage 90..264 Vac
Performance Travel Charger	ACP-12A	0675300	Australia-plug, operating voltage 90 .. 264 Vac
Performance Travel Charger	ACP-12AR	0675298	Argentina-plug, operating voltage 90 .. 264 Vac

Figure 4: ACP-12



Specification

Output connectors: 3.5 mm DC plug, 2-pole (+, -, control)

Protection: Output current limiting, max. 0.85 A

Output voltage/current (typ): 6.0 V (+0.3 V)/ 0.8 A

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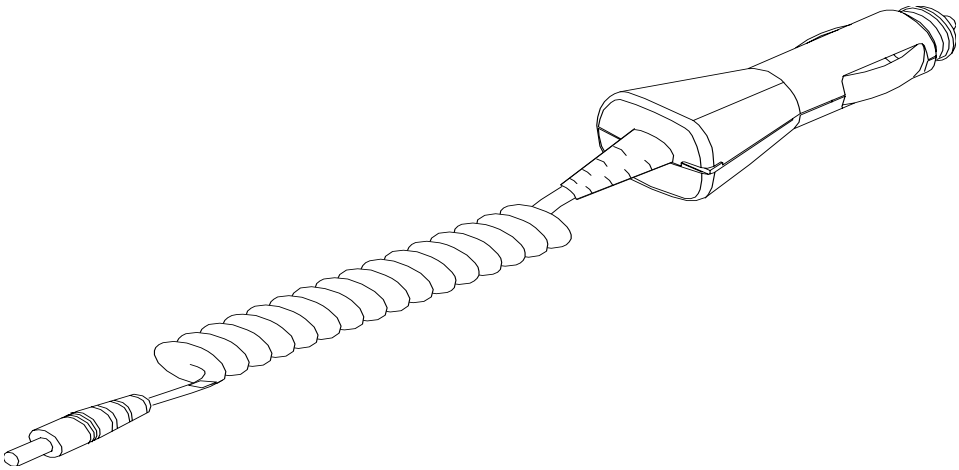
LCH-9 Mobile Charger

A green light indicates that the cigarette lighter charger is ready for charging. Check the charging status on the phone display. The input voltage can be from 11 or 32 V DC, negative grounding.

Name of unit	Type code	Material code	Notes
Cigarette Lighter Charger	LCH-9	0675120	Operating voltage 10.8 .. 32 Vdc

Figure 5: LCH-9



Specification

Connectors

- input: *D 21/23 mm*
- output: *3.5 mm DC plug*

Protection: *input fused, output current limit 850 mA*

Voltage

- input: *11...32 V*
- output (nominal): *8.4 V*

Nominal output current: *800 mA*

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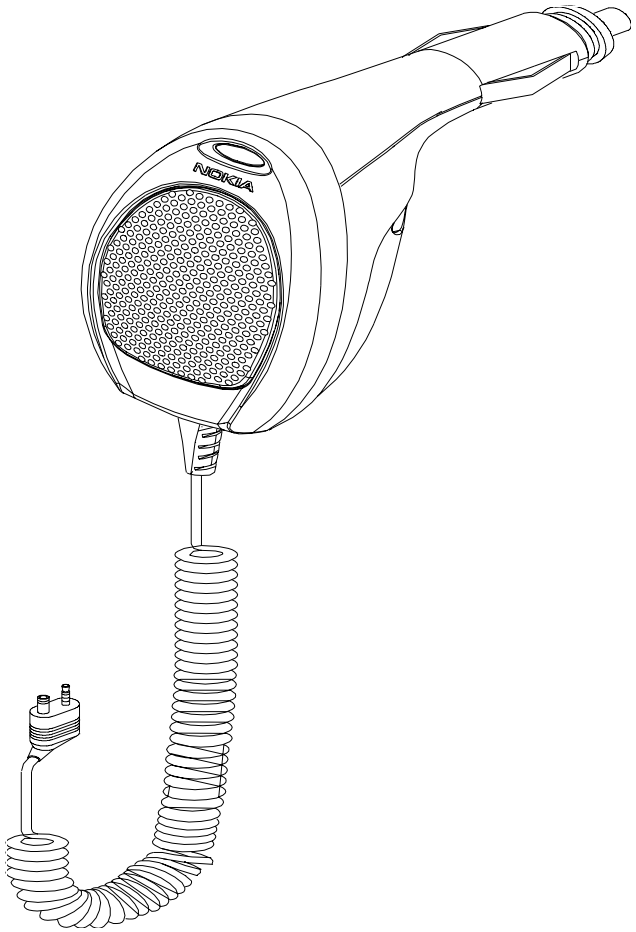
PPH-1 Plug-in HF Car Kit

The PPH-1 provides rapid charging for the phone and possibility for HF (Hands Free) operation. The PPH-1 plug and play hands free unit is connected directly to the cigarette lighter in the car. PPH-1 is connected to Mobile phone with the cable. The cable has combined connector with charger and headset connectors. HF microphone HFM-8 can be connected to PPH-1 connector as well.

Name of unit	Type code	Material code	Notes
Plug and Play HF Unit	PPH-1	0675182	

Figure 6: PPH-1



Specification

Output connectors: 3.5 mm DC plug, 2-pole (+, -, control)

Input voltage: 8-16V DC

Protection: Output fault voltage 16 V max.

Output current: 750 mA max.

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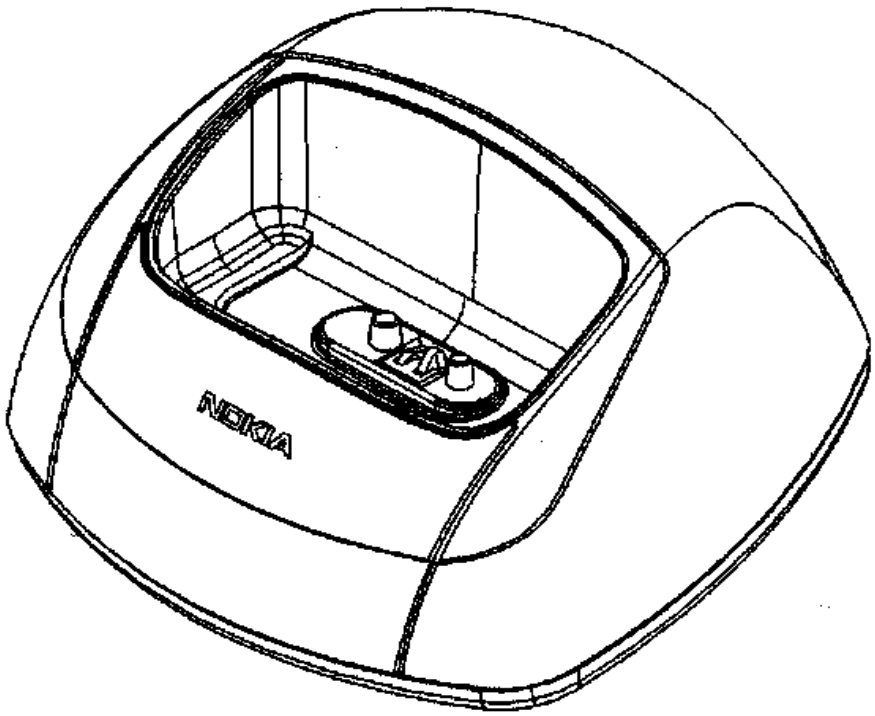
DCV-4 Desk Stand

The desk stand provides a convenient way to charge or keep the phone.

Figure 7: DCV-4



Name of unit	Type code	Material code	Notes
Desk stand	DCV-4	0675252	One slot

Specification

Connections: *3.5 mm DC jack (ACP-7, ACP-8 or ACP-12)*

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HFM-8 Hands Free Microphone

The HFM-8 microphone can be used together with PPH-1 HF Car Kit or Wireless Car Kit CARK112.

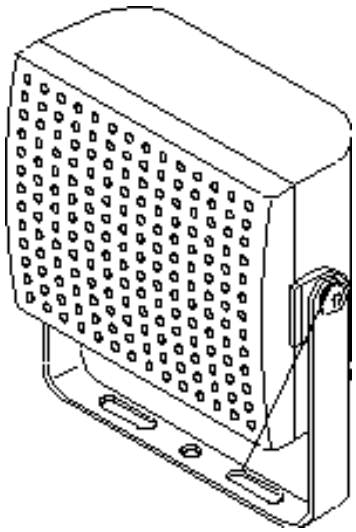
Figure 8: HFM-8

Name of unit	Type code	Material code	Notes
Handsfree microphone	HFM-8	0690016	

HFS-12 HF Speaker

The HFS-12 speaker used together with CARK112, forms the wireless car kit system.

Figure 9: HFS-12



Name of unit	Type code	Material code	Notes
Speaker	HFS-12	0692008	

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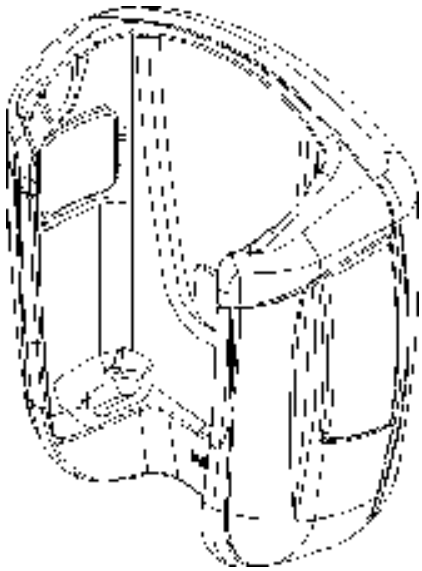
MBC-10 Mobile Holder

The MBC-10 Mobile Holder is used in vehicle to hold the phone. Mounting can be effected using swivel or mounting plate.

Figure 10: MBC-10



Name of unit	Type code	Material code	Notes
Passive Car Holder	MBC-10	0650034	

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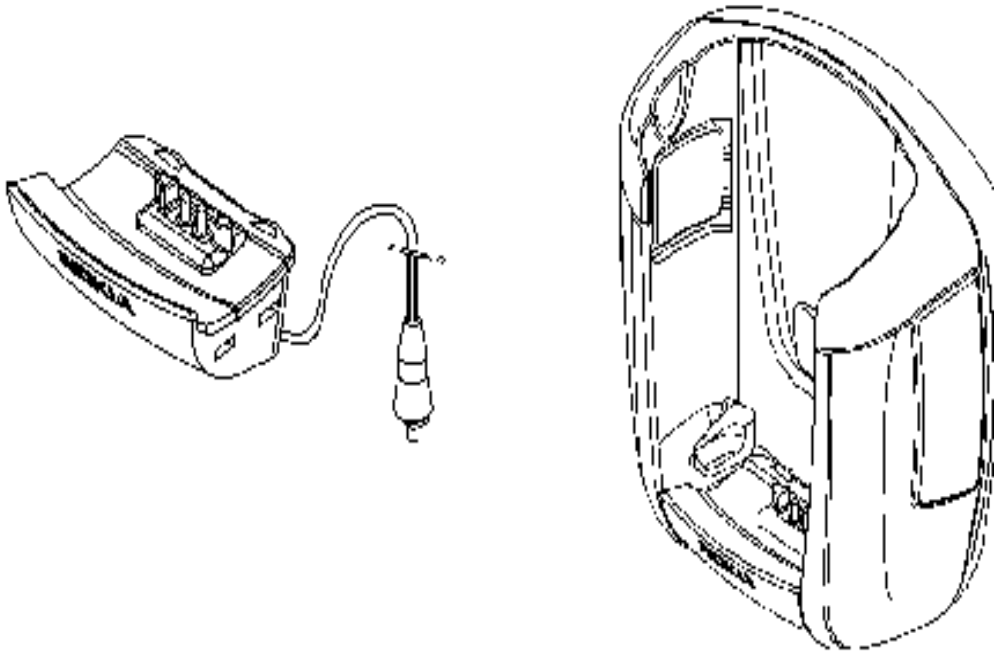
AXC-1 Charging Part

The MBC-10 Mobile Holder is used in vehicle to hold the phone. When using AXC-1 Charging Part and HFW-1 (Wireless Car Kit), phone can be charged in the mobile holder.

Figure 11: AXC-1



Name of unit	Type code	Material code	Notes
Charging part	AXC-1	0650043	

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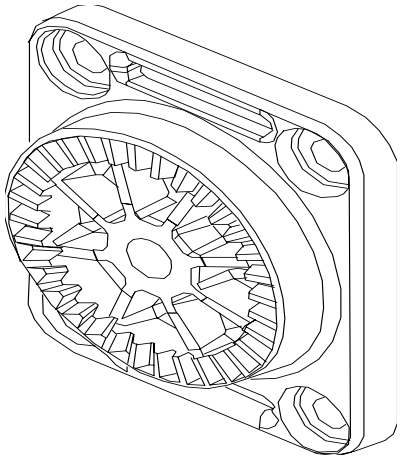
MKU-1 Mounting Plate

The MKU-1 mounting plate provides a method of fixing the MBC-10 Mo bile Holder to the vehicle interior.

Figure 12: MKU-1

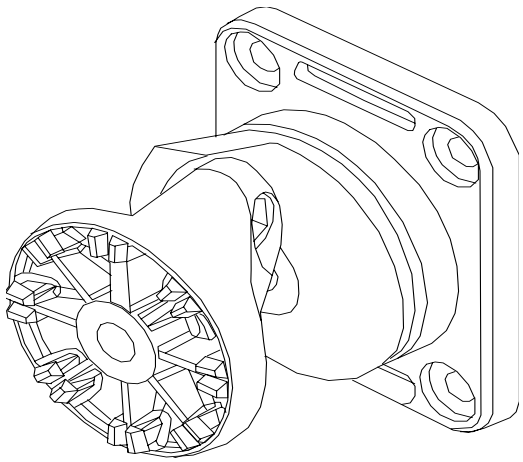


Name of unit	Type code	Material code	Notes
Mounting plate	MKU-1	0	

HHS-9 Swivel Mount

The HHS-9 swivel mounting plate provides an alternative (to MKU-1) method of placing the MBC-10 Mobile Holder.

Figure 13:



Name of unit	Type code	Material code	Notes
Swivel Mount	HHS-9	0	

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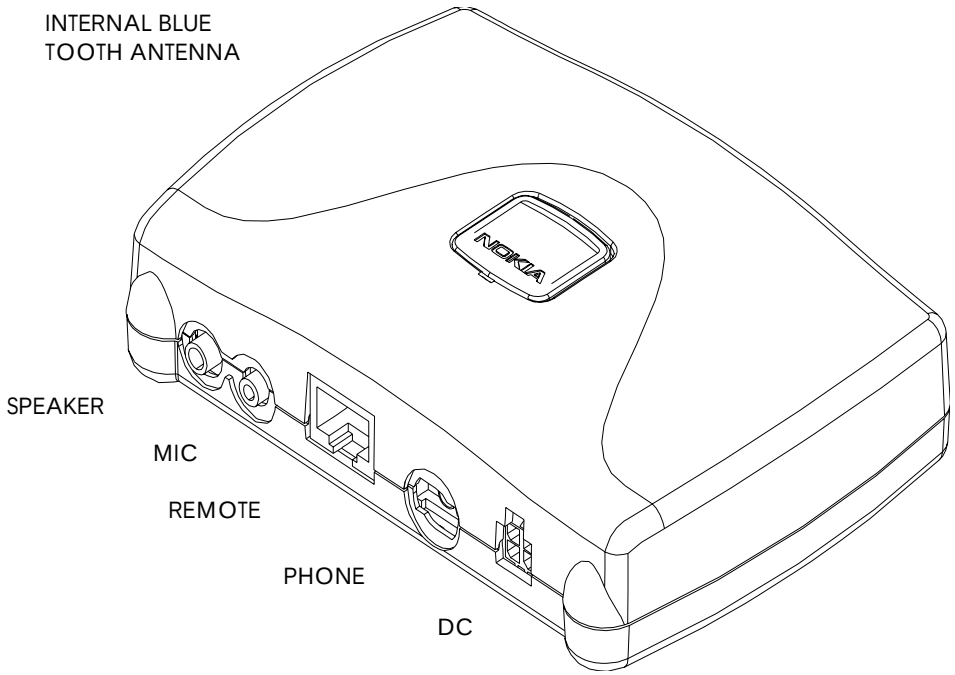
HFW-1 Hands Free Unit

The HFW-1 is used in a fixed car installation (CARK112) and it offers a wireless handsfree function, a fast charging function when a phone is connected into it by a charging cable (phone specific, not supplied with CARK-112) and a wireless connection to external devices.

Figure 14: HFW-1



Name of unit	Type code	Material code	Notes
Bluetooth Hands-free Unit	HFW-1	0750135	
Bluetooth Hands-free Unit	HFW-1	0750175	China
Bluetooth Hands-free Unit	HFW-1	0750177	France

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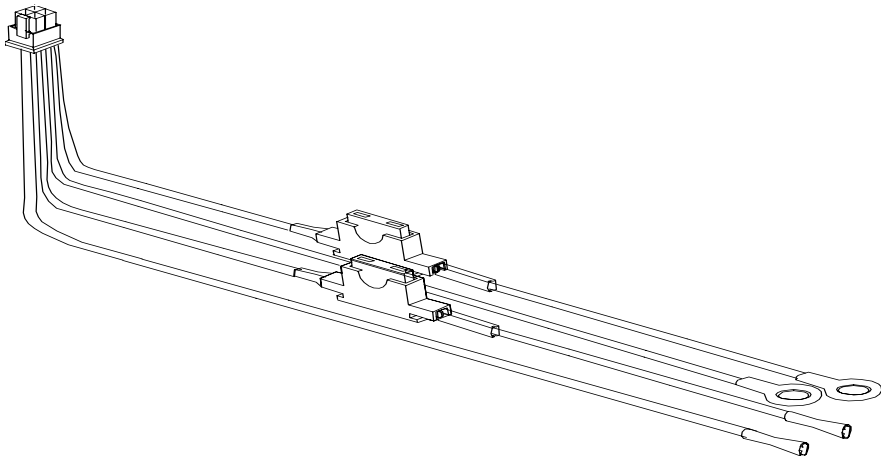
PCU-4 Power Cable

The power cable connects the wireless handsfree unit HFW-1 (CARK112) to the vehicle's power supply (DC socket).

Figure 15: PCU-4

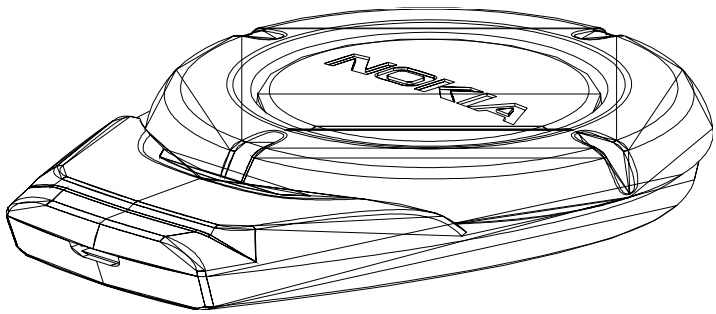


Name of unit	Type code	Material code	Notes
Power Cable	PCU-4	0630478	

CUW-2 Remote Control Button

The Remote Control Button (CUW-2) allows convenient operation of the phone when used in CARK112. The car installation includes a Remote Control Button, which is connected to the HFW-1 with a cable (REMOTE socket). The speaker volume of the HFW-1 can be controlled with a ring (rotary switch) in the CUW-2. It is possible to receive a call or to dial by pressing a send/end push button in the CUW-2 (also voice dialing).

Figure 16: CUW-2



Name of unit	Type code	Material code	Notes
Remote Control Button	CUW-2	0694077	

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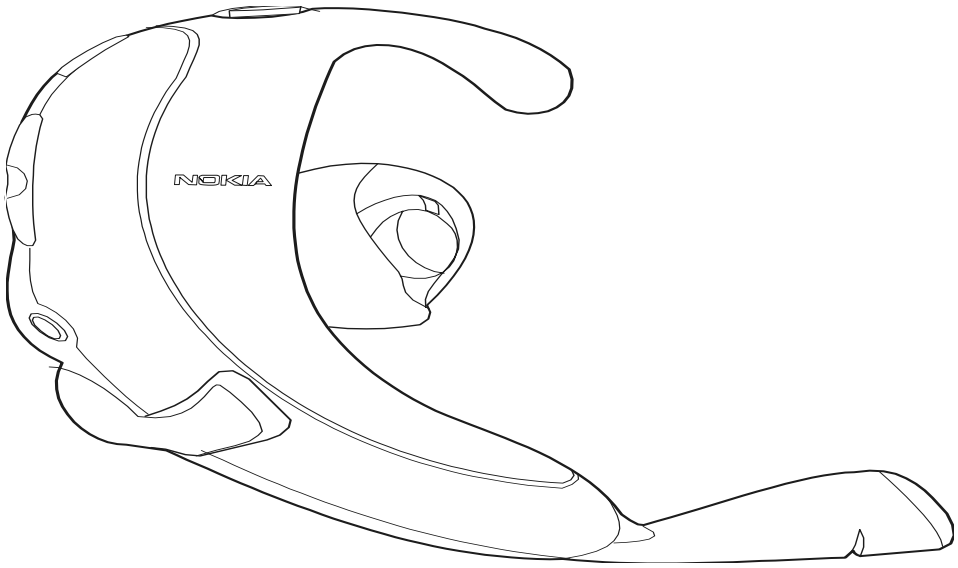
HDW-1 Headset

The HDD-1 headset provides a good audio quality and has also switch for answer/end button.

Figure 17: HDW-1



Name of unit	Type code	Material code	Notes
Headset	HDW-1	0694064	Wireless Bluetooth headset
Headset	HDW-1	0694099	Wireless Bluetooth headset, France
Headset	HDW-1	0694100	Wireless Bluetooth headset, China

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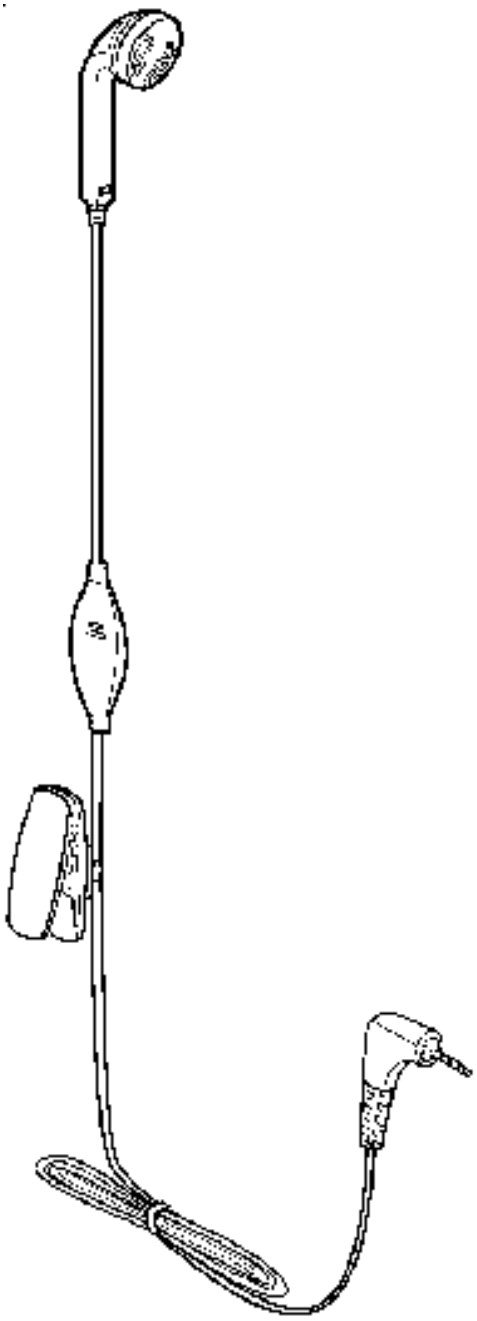
HDC-5 Headset

The HDC-5 headset has also switch for answer/end button.

Figure 18: HDC-5



Name of unit	Type code	Material code	Notes
Headset	HDC-5	0694059	4-wire

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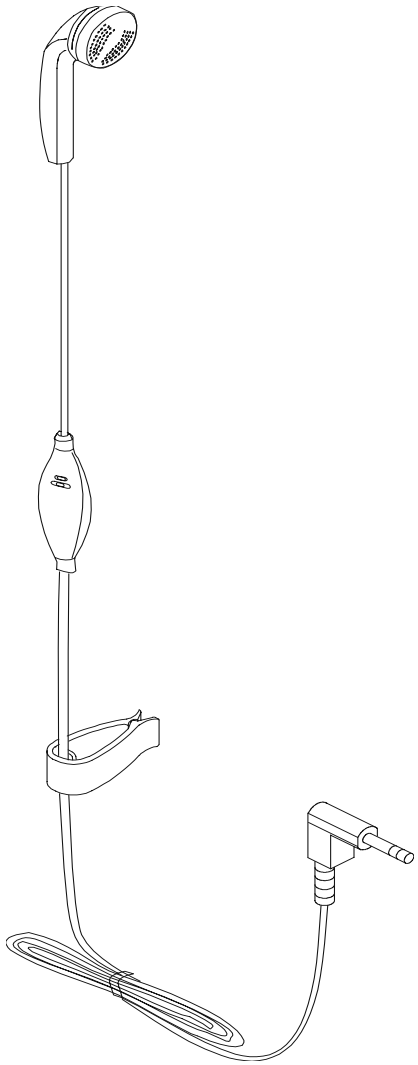
HDE-2 Headset

The HDE-2 headset provides convenient hands free operation of the phone.

Figure 19: HDE-2



Name of unit	Type code	Material code	Notes
Headset	HDE-2	0694075	Mechanically and acoustically equal to HDC-5. No ON/OFF switch.

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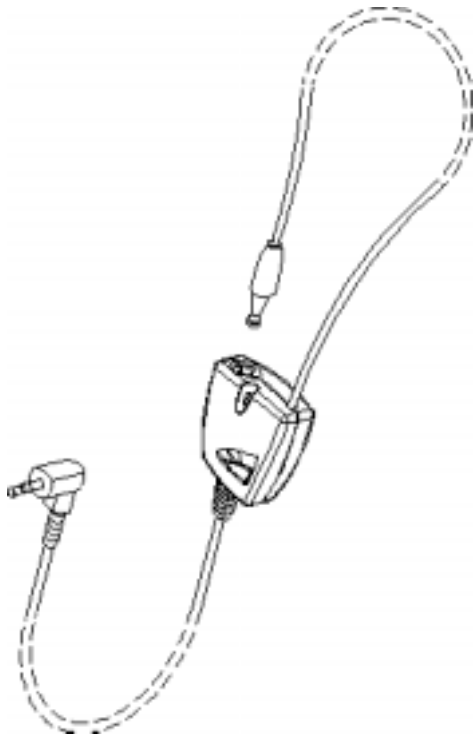
Loopset LPS-3

Loopset LPS-3 has been developed for hearing aid users to allow them to use mobile phones. It is based on induction technology.

All hearing aids have support for induction loop, i.e. they have a little tele coil inside. This coil can capture the signal supplied to the loop. Standard hearing aids have two operation modes; M-mode for normal microphone use and T-mode for tele coil use.

Figure 20: LPS-3



Name of unit	Type code	Material code	Notes
Loopset	LPS-3	0630244	

Recommended Batteries

Type	Size / IEC-type	Rated capacity	Talk time (3mA load)	Stand-by (20uA load)
Zinc Air Hearing Aid Battery	675 / PR44	540 mAh	180 hour.	840 hour or 35 day (1)
Silver Oxide Hearing Aid Battery	675 / SR44	150 mAh	50 hour.	7 500 hour or 310 day.
Alkaline Battery	675 / LR44	110 mAh	36 hour.	5 500 hour or 230 day.

Note (1): The capacity of the zinc air battery will fall 20% in a month. After the activation the zinc air battery begins to self-discharge. The battery will be empty within 5 weeks.

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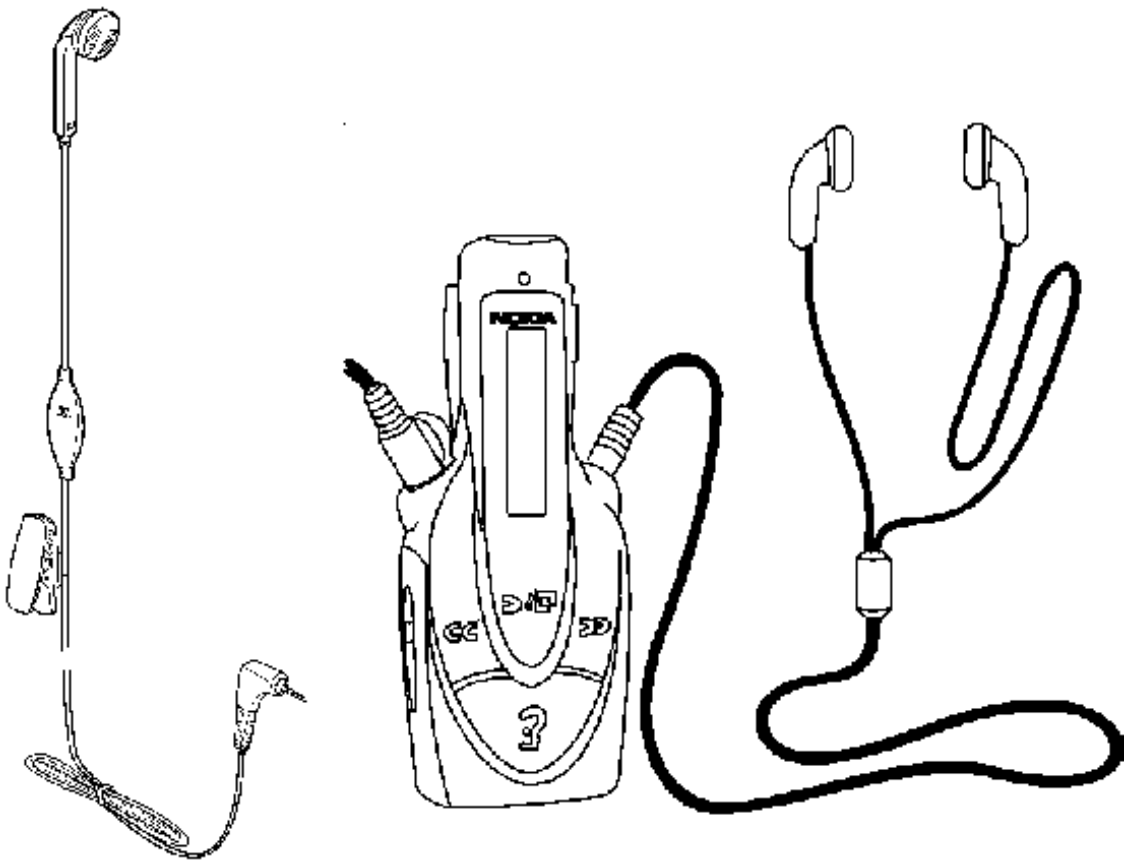
Digital Music Player HDR-1

Digital music player HDR-1 is connected to the system connector of a the NHM-4. Headset HDC-5 or HDE-2 is needed for listening the recording.

Figure 21: HDR-1



Name of unit	Type code	Material code	Notes
Digital Music Player	HDR-1	0694101	
Headset	HDC-5	0694059	4-wire
Headset	HDE-2	0694075	Mechanically and acoustically equal to HDC-5. No ON/OFF switch.

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